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L2: Entry 2 of 2

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Jan 6, 2004

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TITLE: Multi-walled carbon nanotubes which have a high crystallinity and can be used used as a filler for electrode material of secondary cells

INVENTOR: KIM, D C; PARK, C W

PRIORITY-DATA: 2000KR-0070508 (November 24, 2000)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> JP 3484174 B2	January 6, 2004		008	C01B031/02
<input type="checkbox"/> KR 2002040644 A	May 30, 2002		001	C01B031/02
<input type="checkbox"/> JP 2002220216 A	August 9, 2002		007	C01B031/02

INT-CL (IPC): [B01 J 35/02](#); [B01 J 37/18](#); [B01 J 37/32](#); [C01 B 31/02](#); [D01 F 9/127](#)

ABSTRACTED-PUB-NO: KR2002040644A

BASIC-ABSTRACT:

NOVELTY - Provided is multi-walled carbon nanotubes which have a high crystallinity and can be used as a filler for electrode material of secondary cells, conductive material, and high molecular composite material and a production method thereof.

DETAILED DESCRIPTION - The multi-walled carbon nanotubes are prepared by (i) subjecting a catalytic amount of gamma-ferrite having an average particle size of 20 to 80 nm, which is prepared by colloidal dispersion, followed by lyophilization to reduction treatment in reducing atmosphere of 400 to 700 deg.C, (ii) mixing a raw material of carbon monoxide and/or hydrocarbon with hydrogen on the surface of treated catalyst in a flow bed and fixed bed at 640 to 700 deg.C for gas phase decomposition. The reducing atmosphere is a mixture gas of hydrogen and nitrogen, hydrogen and argon, or hydrogen and helium and the hydrogen content in the mixture is 2 to 50% by volume.

[Previous Doc](#) [Next Doc](#) [Go to Doc#](#)